

**FIDUCIAL MARKER DEVICES, TOOLS, AND METHODS**

**ABSTRACT**

5           This document discusses, among other things, fiducial marker devices,  
tools, and methods. One example illustrates a combined computed tomography  
(CT) imagable fiducial locator head, an integral bone screw, and an integral  
divot for receiving a positioning wand of an image-guided surgical (IGS)  
workstation. A further example includes a fluid/gel-absorbing coating or cover  
10   into which a magnetic resonance (MR) imagable fluid is introduced, thereby  
permitting both CT and MR imaging. Protective caps and collars may be used to  
protect the fiducial marker from mechanical impact and/or to guide the fiducial  
marker during affixation. A bull's-eye or other template is used to select a  
center of a substantially spherical fiducial marker head on an image, such as for  
15   use during patient registration.